

ABSTRACT

5 An R-Fe-B permanent magnet wherein R is Nd or a
combination of Nd with a rare earth element is prepared by
casting an R-Fe-B alloy, crushing the alloy in an oxygen-
free atmosphere of argon, nitrogen or vacuum, effecting
comminution, compaction, sintering, aging, and cutting
and/or polishing the magnet to give a finished surface. The
10 magnet is then heat treated in an argon, nitrogen or low-
pressure vacuum atmosphere having a limited oxygen partial
pressure, obtaining a highly oil resistant sintered
permanent magnet having corrosion resistance and hydrogen
barrier property even in a high pressure hot environment of
15 refrigerant and/or lubricant as encountered in compressors.